Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) An image information describing method comprising:
sampling video information, including video frames, with at least one of a variable
time interval parameter and a variable size parameter to obtain thumbnail frames; and
describing attribute information for specifying each of the video frames corresponding
to each of the thumbnail frames as thumbnail information.

- 2. (Previously Presented) The image information describing method according to claim 31, further comprising describing additional information contains scene change position information of the video information.
- 3. (Previously Presented) The image information describing method according to claim 31, further comprising additional information contains frame change value information of the video information.
- 4. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains position information indicative of a position on a time axis of the video frame corresponding to the thumbnail frame.

- 5. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains information concerning the size of the thumbnail frame.
- 6. (Previously Presented) The image information describing method according to claim 31, wherein the attribute information contains information concerning the resolution of the thumbnail frame.
- 7. (Previously Presented) The image information describing method according to claim 31, wherein the thumbnail information contains image data of the thumbnail frame or a pointer for the thumbnail frame.
- 8. (Previously Presented) The image information describing method according to claim 31, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.
- 9. (Currently Amended) A video retrieval method for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the thumbnail information, attribute information containing at least first position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames; and



retrieving the thumbnail frame having the closest first position information to a second position information indicative of a position on the time axis of a desired video frame of the predetermined video information.

10. (Previously Presented) The video retrieval method according to claim 34, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

- 11. (Previously Presented) The video retrieval method according to claim 34, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.
- 12. (Currently Amended) A video retrieval method for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling video information with at least one of a variable time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the sample image information, attribute information containing at least first position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames;

describing, as additional information, scene change position information of the video information; and

retrieving a thumbnail frame having the closest first position information to a second position information indicative of a position on the time axis of a desired video information and earlier or later than the scene change position information.

- 13. (Previously Presented) The video retrieval method according to claim 37, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.
- 14. (Previously Presented) The video retrieval method according to claim 37, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

15. (Currently Amended) A video retrieval method for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video retrieval method comprising:

describing, as the thumbnail information, attribute information containing at least position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames; and

retrieving a thumbnail frame in which difference from a desired video information is equal to or less than a predetermined threshold.

16. (Previously Presented) The video retrieval method according to claim 40, wherein the position information described for a thumbnail frame in which the difference from the desired video information is equal to or less than the predetermined threshold is recorded as the retrieval result.

- 17. (Original) The video retrieval method according to claim 16, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.
- 18. (Original) The video retrieval method according to claim 16, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

19. (Currently Amended) A video reproducing method for reproducing video information including a plurality of video frames at variable speed by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video reproducing method comprising:

describing, as the thumbnail information, attribute information containing the thumbnail frames and at least position information indicative of a position on a time axis in order to specify the video frames corresponding to the thumbnail frames;

describing frame change value information of the video information as additional information; and

changing a reproduction speed of the thumbnail frames according to the frame change value information.

20. (Previously Presented) The video reproducing method according to claim 43, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.

- 21. (Currently Amended) The video reproducing method according to claim 43, wherein the plurality of thumbnail frames are stoned stored as one item of the thumbnail information.
- 22. (Currently Amended) A video retrieval apparatus for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video retrieval apparatus comprising:

a first describing unit configured to describe, as the thumbnail information, attribute information containing at least first position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames;

a second describing unit configured to describe, as additional information, scene change position information of the video information; and

a retrieving unit configured to retrieve a thumbnail frame having the closest first position information to a second position information indicative of a position on the time axis of a desired video information and earlier or later than the scene change position information.

- 23. (Previously Presented) The video retrieval apparatus according to claim 46, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.
- 24. (Previously Presented) The video retrieval apparatus according to claim 46, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.

25. (Currently Amended) A video retrieval apparatus for retrieving video information including a plurality of video frames by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video retrieval apparatus comprising:

a describing unit configured to describe, as the thumbnail information, attribute information containing at least position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames; and a retrieving unit configured to retrieve a thumbnail frame in which difference from a desired video information is equal to or less than a predetermined threshold.

- 26. (Previously Presented) The video retrieval apparatus according to claim 49, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.
- 27. (Previously Presented) The video retrieval apparatus according to claim 49, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.
- 28. (Currently Amended) A video reproducing apparatus for reproducing video information including a plurality of video frames at variable speed by employing thumbnail information concerning a plurality of thumbnail frames obtained by sampling the video information with at least one of a variable time interval parameter and a variable size parameter, the video reproducing apparatus comprising:

a first describing unit configured to describe, as the thumbnail information, attribute information containing the thumbnail frames and at least position information indicative of a position on a time axis in order to specify the video frame corresponding to each of the thumbnail frames;

a second describing unit configured to describe frame change value information of the video information in the thumbnail information as additional information; and

a changing unit configured to change a reproduction speed of the thumbnail frames according to the frame change value information.

- 29. (Previously Presented) The video reproducing apparatus according to claim 52, wherein the thumbnail frames contain a frame obtained by sampling only an arbitrary part of one frame of the video information with arbitrary time interval and size.
- 30. (Previously Presented) The video reproducing apparatus according to claim 52, wherein the plurality of thumbnail frames are stored as one item of the thumbnail information.
- 31. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

sampling a video frame in the video information; extracting a part of the sampled video frame; and sampling the extracted part.

32. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

Appl. No. 09/493,012 Reply to Office Action of August 7, 2003

sampling a video frame in the video information; and reducing a resolution of the sampled video frame.

33. (Previously Presented) The image information describing method according to claim 1, the sampling comprising:

sampling a video frame in the video information; and reducing a size of the sampled video frame.

- 34. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.
- 35. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 36. (Previously Presented) The video retrieval method according to claim 9, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 37. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

Appl. No. 09/493,012 Reply to Office Action of August 7, 2003

- 38. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 39. (Previously Presented) The video retrieval method according to claim 12, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 40. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.
- 41. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 42. (Previously Presented) The video retrieval method according to claim 15, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 43. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

- 44. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 45. (Previously Presented) The video retrieval method according to claim 19, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 46. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.
- 47. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 48. (Previously Presented) The video retrieval apparatus according to claim 22, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 49. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.

- 50. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 51. (Previously Presented) The video retrieval apparatus according to claim 25, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.
- 52. (Previously Presented) The video reproducing apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information, extracting a part of the sampled video frame and sampling the extracted part.
- 53. (Previously Presented) The video retrieval apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a resolution of the sampled video frame.
- 54. (Previously Presented): The video retrieval apparatus according to claim 28, wherein the thumbnail frames are obtained by sampling a video frame in the video information and reducing a size of the sampled video frame.